



Welding



Date	2/17/23	Orientation Time	10:45am (CLOSED to instructors)
Location	Sentinel Career & Technology Center 793 Old Attica Rd. Tiffin, OH 44883	Contest Time	*Immediately following orientation
Purpose	To evaluate each contestant's preparation for employment and to recognize outstanding students for excellence and professionalism in the field of welding.		
Testing	Yes		
Eligibility	1 contestant for every 50 paid members enrolled in program		
Clothing	Work Attire: Field specific work clothing required for the work environment or that matches the service conditions for the contest. This may include jeans if they are clean and professional looking and are accepted in the respective field (no holes or overly soiled pants). Work shoes or boots with a hard sole or anti-slip properties (steel toes may be required – refer to Provided by Contestant section below). Clothing should be as such that it will not get caught in moving equipment or power tools. School uniforms may be worn if they meet the above requirements with all identifiers covered.		
Provided by Contestant	Professional Resume' Emergency Medical Form (Contestants must have this to compete) Leather welding jacket Fireproof face mask Hearing and/or ear protection Welding helmet with appropriate filter plate/lens and protective cover plate/lens in a flip or slide front. Auto darkening shields are permissible Spare spatter and filter lenses/plates for arc welding helmet and oxyacetylene goggles Pocket calculator Lead pencil and/or ballpoint pen Soap stone with holder Scribe with magnet Combination square set 10-foot (3.1 meters) steel tape measure Fillet weld gauge 16-ounce (.45 kilogram) ball peen hammer Center punch 10-inch (254 millimeters) vise grips 6-inch (152 millimeters) side cutting pliers or diagonal cutting pliers 6-inch (152 millimeters) needle nose pliers Chipping hammer with or without wire brush Stainless steel wire brush		
	Contest Skilled Performance Standards	Aligned ODE Manufacturing Career Field Technical Content Standard Outcomes	

	<p>WF 3.0 – Read and interpret blueprints</p> <p>W 4.0 - Produce welds using a Shielded Metal Arc Welding (SMAW) process to AWS QC10 standards.</p> <p>W 5.0 - Produce welds using a Gas Metal Arc Welding (GMAW) process to AWS QC10 standards.</p> <p>W 6.0 - Produce welds using a Fluxed Cored Arc Welding (FCAW) process to AWS QC10 standards.</p> <p>W 7.0 - Produce welds using a Gas Tungsten Arc Welding (GTAW) process to AWS QC10 standards.</p> <p>W 8.0 - Produce cut materials using an Oxygen Fuel Cutting (OFC) process to AWS QC10 standards.</p> <p><i>Please review the 2022-2023 SkillsUSA National Tech Standards for detailed information on each skilled performance standard.</i></p>	<p>Outcome 6.1 Measurement and Interpretation</p> <p>Outcome 4.3 Arc Welding Process</p> <p>Outcome 4.6 Cutting Processes</p> <p>Above Outcomes can be found in the following ODE courses: 176000 Gas Metal Arc Welding 176001 Shielded Metal Arc Welding 176002 Flux Cored Arc Welding 176003 Gas Tungsten Arc Welding</p>
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